

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/11854

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : B29C 45/00
 US CL : 264/328.1, 264/401, 264/464, 264/442

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
 U.S. : 264/328.1, 264/401, 264/464, 264/442

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
INJECTION MOLDING HANDBOOK (3rd ed.)

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6,355,196 B1 (KOTNIS et al) 12 March 2002 (12.03.2002), column 1, lines 6-13, 59-65; column 2, lines 19-23; column 3, lines 60-66; column 4, lines 1-9, 31-46, 58-65; column 5, lines 1-8, 16-23, 30-47; column 7, lines 20-24; column 8, lines 40-50; column 9, lines 25-40; column 11, lines 26-36.	1-4, 9-15, 19, 22, 27-29, 41
Y	ROSATO, Dominick V., Donald V. Rosato, and Marlene G. Rosato. INJECTION MOLDING HANDBOOK (3rd ed.) Kluwer Academic Publishers: Boston. 2000, Pages 150, 263, 271-272, 334, 354, 445, 692-693.	5, 7-8, 16-17, 20-21, 23, 25-26, 30, 33, 35-38, 40, 42, 44
Y	US 3,930,061 A (SCHARFENBERGER) 30 December 1975 (30.12.1975)	16, 17, 20-21, 26, 33
A	US 5,744,697 A (MARTELL et al) 28 April 1998 (28.04.1998)	1-44
A	US 6,159,407 A (KRINKE et al) 12 December 2000 (12.12.2000)	1-44
Y	US 5,938,876 A (EDWARDS et al) 17 August 1999 (17.08.1999), column 2, lines 30-33, 52-56	35-38

<input checked="" type="checkbox"/>	Further documents are listed in the continuation of Box C.	<input type="checkbox"/>	See patent family annex.
"*	Special categories of cited documents:	"T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"A"	document defining the general state of the art which is not considered to be of particular relevance	"X"	document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"E"	earlier application or patent published on or after the international filing date	"Y"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"L"	document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"&"	document member of the same patent family
"O"	document referring to an oral disclosure, use, exhibition or other means		
"P"	document published prior to the international filing date but later than the priority date claimed		

Date of the actual completion of the international search 01 July 2003 (01.07.2003)	Date of mailing of the international search report 08 AUG 2003
Name and mailing address of the ISA/US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703)305-3230	Authorized officer Jill L. Heitbrink Telephone No. 703-308-0661 Jean Frans, <i>J.F.</i> Patent Specialist

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INTERNATIONAL SEARCH REPORT

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A —	US 5,952,018 A (BELDUE et al) 14 September 1999 (14.09.1999)	1-44
Y ↵	US 6,287,428 B1 (GALE et al) 11 September 2001 (11.09.2001), column 2, lines 49-54; column 4, lines 52-54.	30